HIV in Racial and Ethnic Minority Populations

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Module 6: Key Populations
Lesson 6: HIV in Racial and Ethnic Minority Populations

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Introduction

Background

In the United States, the HIV epidemic disproportionately impacts racial and ethnic minority populations.[1] For all persons living with HIV, accessible, affordable, and effective antiretroviral therapy is critical for improving health and preventing transmission of HIV. In the United States, since 2010, national strategies and priorities for HIV have emphasized reducing HIV-related health disparities and inequities, as well as ensuring that all persons with HIV receive access to treatment and care that is nonstigmatizing and culturally sensitive and competent.[2,3]

Clinician Awareness of HIV-Related Disparities

Multiple factors contribute to HIV-related disparities in the United States, including historical trauma, cultural differences, and socioeconomic inequalities. Clinicians working in the HIV field should be aware of these health disparities because they significantly impact clinical care. This Topic Review will address the epidemiology of HIV within racial and ethnic minority communities, highlight differences in engagement in care and HIV outcomes, explore key paradigms for understanding unique vulnerabilities to HIV among certain subpopulations, and investigate strategies to reduce HIV-related inequities in racial and ethnic minority populations.
Overview of HIV Epidemiology in Racial and Ethnic Minorities

Terminology for Epidemiology Data

The CDC generates extensive HIV surveillance data; the following definitions explain the different types of HIV surveillance data in the United States:

- **HIV Prevalence**: The HIV prevalence is the estimated number of persons living with HIV. This estimate includes persons living with diagnosed or undiagnosed HIV. Because the number of persons living with undiagnosed HIV is an estimate, the overall HIV prevalence is an estimate.

- **Diagnosed HIV**: The reporting for diagnosed HIV refers to persons living with a known HIV diagnosis, regardless of when the HIV diagnosis was made. Numbers of persons living with diagnosed HIV infection are reported numbers, not estimates and represent a good estimate of prevalence and can provide prevalence trends.

- **New HIV Diagnoses**: New HIV diagnoses are persons who have been diagnosed with HIV during a fixed time period, typically one year. These individuals may have acquired HIV during that year or in years prior. Thus, new HIV diagnoses are not the same as new HIV infections (HIV incidence).

- **New HIV Infections (HIV Incidence)**: The HIV incidence represents the number of new infections that occurred during a fixed time period. Because many persons living with HIV are diagnosed years after their initial infection, the HIV incidence data is based on estimates performed by the CDC.

HIV Prevalence Estimates Based on Race/Ethnicity

The estimated HIV prevalence in the United States takes into account the total number of persons living with diagnosed HIV infection plus the estimated number of persons living with HIV who have not been diagnosed.[4] The Centers for Disease Control and Prevention (CDC) HIV reported that at year-end 2018 an estimated 1,173,200 persons 13 years of age and older living with HIV in the United States and 482,900 (41%) were Black/African American, 340,700 (29%) were White, and 274,100 (23% were Hispanic/Latino). Further, persons who are Black/African American have the highest HIV prevalence rate of 1,434 per 100,000 population at year-end 2018, which is 7.2 times higher than in persons who are Whites. These data underscore the disproportionate burden of HIV carried by minority populations within the United States, especially in persons who are Black.[4,5]

HIV Incidence Estimates Based on Race/Ethnicity

The number of persons newly infected with HIV in the United States during a given time period (typically over 1 year) represents the HIV incidence. For the year 2018, the CDC reported that among the estimated 36,400 persons newly infected with HIV in the United States, 15,300 (42%) were Black/African American, 10,300 (28%) Hispanic/Latino, 9,000 (25%) White, and the remaining 5% divided among Asian, American Indian/Alaska Native, native Hawaiian/Other Pacific Islander, and persons of multiple races. The estimates for HIV incidence rates (new infections per 100,000 population) show that Black/African American persons have the highest rates—8.7 times higher than for White persons and 2.0 times higher than for Hispanic/Latino persons.

Projected Lifetime Risk of Acquiring HIV

The overall projected lifetime risk of being diagnosed with HIV in the United States for all persons is approximately 0.94-0.95% (or 1 in 106 persons); the risk varies significantly by sex and by racial/ethnic group. For males, the lifetime risk of a diagnosis of HIV is 1 in 68, though the risk is much higher among Black/African American men (1 in 22). For females, the lifetime risk of a diagnosis of HIV is 1 in 250, with the highest risk occurring among Black/African American females (1 in 54). For all racial/ethnic groups of men who have sex with men (MSM), the lifetime risk of a diagnosis of HIV is very high (1 in 6 overall). The estimated lifetime risk for Black/African American MSM is 1 in 2 (or 50% lifetime risk)—this
is the highest of all ethnic/racial minority subpopulations and illustrates the dramatic disparities in HIV risk that must be addressed in the United States.
HIV Epidemiology Data by Racial and Ethnic Populations

HIV in Black/African American Persons

The following summarizes key HIV epidemiology features in the United States among persons who are Black/African American.

- **HIV Prevalence (Living with Diagnosed or Undiagnosed HIV):** At year-end 2018, an estimated 482,900 Black/African American individuals were living with HIV (diagnosed and undiagnosed) in the United States; this corresponds to 41.2% of all persons living with HIV in the United States. Among all Black/African American persons with HIV in 2018 in the United States, 14.0% were undiagnosed. The HIV prevalence rate in Black/African American persons was 1,434.3 per 100,000 population, which was by far the highest among all racial/ethnic groups. In 2018, among Black/African American men living with HIV, 66.5% had male-male sex as their reported transmission risk, heterosexual contact was the most common reported transmission risk for Black/African women living with HIV (83.7%).

- **HIV Incidence (New HIV Infections):** In 2018, persons who are Black/African American accounted for an estimated 15,300 (42.0%) of the 36,400 new HIV infections in the United States. The HIV incidence rate (per 100,000 population) was 45.4 for persons who are Black/African American, which was by far the highest among all racial and ethnic groups. For Black/African American males newly who acquired HIV in 2018, an estimated 82% had male-male sex as their reported transmission category and 92% of the Black/African American females acquired HIV through heterosexual contact. The number of new HIV infections in the United States among persons who are Black/African Americans declined slightly during 2014 through 2018 (Figure 7).

HIV in White Persons

The following summarizes key HIV epidemiology features in the United States among persons who are White.

- **HIV Prevalence (Living with Diagnosed or Undiagnosed HIV):** At year-end 2018, an estimated 340,700 White individuals were living with HIV (diagnosed and undiagnosed) in the United States, which corresponds to 29.0% of all persons living with HIV in the United States. Among all White persons with HIV in the United States, 11.3% were undiagnosed, which is the lowest undiagnosed fraction among all racial/ethnic groups. The HIV prevalence rate (per 100,000 population) in White persons was 198.7, which was the third lowest among all racial/ethnic groups and more than 7 times lower than the HIV prevalence rate among Black/African American persons.

- **HIV Incidence (New HIV Infections):** In 2018, White individuals accounted for an estimated 9,000 (24.7%) of the 36,400 new HIV infections in the United States. The HIV incidence rate (per 100,000 population) was 5.2. The number of new HIV infections in the United States among White persons decreased between 2014 through 2018, with a high of 9,800 in 2014 and a low of 9,000 in 2018) (Figure 8).

HIV in Hispanic/Latino Persons

The following summarizes key HIV epidemiology features in the United States among Hispanic/Latino persons.

- **HIV Prevalence (Living with Diagnosed or Undiagnosed HIV):** At year-end 2018, an estimated 274,100 Hispanic/Latino persons were living with HIV (diagnosed and undiagnosed) in the United States, which corresponds to 23.4% of all persons with HIV in the United States. In the United States in 2018, among all Hispanic/Latino persons living with HIV, 16.7% had undiagnosed HIV. The HIV prevalence rate (per 100,000 population) in Hispanic/Latino persons was 593.0, which was the second highest among all racial/ethnic groups. For the year 2018, among Hispanic/Latino persons living with HIV, 76.2% of the males had male-male sex as their reported transmission risk.
category and 78.7% of females had heterosexual contact as their reported transmission category.[4]

- **HIV Incidence (New HIV Infections):** In 2018, Hispanic/Latino individuals accounted for an estimated 10,300 (28.3%) of the 36,400 new HIV infections in the United States.[4] The HIV incidence rate (per 100,000 population) was 22.4, which was the second highest among all racial and ethnic groups.[4] The number of new HIV infections in the United States among Hispanic/Latino persons increased during 2014 through 2018, ranging from a low of 9,700 in 2014 to a high of 10,300 in 2018 (Figure 9).[4]

HIV in Asian Persons

The following summarizes key HIV epidemiology features in the United States among Asian persons.

- **HIV Prevalence (Living with Diagnosed or Undiagnosed HIV):** At year-end 2018, an estimated 17,600 Asian persons were living with HIV (diagnosed and undiagnosed) in the United States, which corresponds to 1.5% of all persons living with HIV in the United States.[4] Among all Asian persons living with HIV in the United States, 15.0% were undiagnosed.[4] The HIV prevalence rate (per 100,000 population) in Asian persons was 109.2, which was the lowest among all racial/ethnic groups.[4]
- **HIV Incidence (New HIV Infections):** In 2018, Asian individuals accounted for an estimated 620 (1.7%) of the 36,400 new HIV infections in the United States.[4] The HIV incidence rate (per 100,000 population) was 3.9, which was the lowest among all racial and ethnic groups.[4] The number of new HIV infections in the United States in Asian persons did not significantly change from 2014 through 2018 and the numbers were less than 1,000 each year (Figure 10).[4]

HIV in American Indians/Alaska Native Persons

The following summarizes key HIV epidemiology features in the United States among American Indian/Alaska Native persons.

- **HIV Prevalence (Living with Diagnosed or Undiagnosed HIV):** At year-end 2018, an estimated 3,900 persons who are American Indian/Alaska Native were living with HIV (diagnosed and undiagnosed) in the United States, which corresponds to 0.3% of all persons living with HIV in the United States.[4] Among American Indian/Alaska Native persons living with HIV in the United States, 19.9% were undiagnosed.[4] The HIV prevalence rate (per 100,000 population) in American Indian/Alaska Native persons was 196.0, which was the second lowest among all racial/ethnic groups.[4]
- **HIV Incidence (New HIV Infections):** In 2018, American Indian/Alaska Native persons accounted for an estimated 210 (0.6%) of the 36,400 new HIV infections in the United States.[4] The HIV incidence rate (per 100,000 population) was 10.4. From 2014 through 2018, the number of new HIV infections in the United States among American Indian/Alaska Native persons remained very low (fewer than 250 per year) (Figure 11).[4]

HIV in Native Hawaiian/Pacific Islander Persons

The following summarizes key HIV epidemiology features in the United States among Native Hawaiian/Pacific Islander persons.

- **HIV Prevalence (Living with Diagnosed or Undiagnosed HIV):** At year-end 2018, an estimated 1,100 Native Hawaiian/Other Pacific Islander persons were living with HIV (diagnosed and undiagnosed) in the United States, which corresponds to approximately 0.1% of all persons living with HIV in the United States.[4] Among all Native Hawaiian/Other Pacific Islander persons living with HIV in the United States, 20.5% were undiagnosed.[4] The HIV prevalence rate (per 100,000 population) in Native Hawaiian/Other Pacific Islander persons was 220.7.[4]
• **HIV Incidence (New HIV Infections):** In 2018, Native Hawaiian/Other Pacific Islander persons accounted for an estimated 60 (0.2%) of the 36,400 new HIV infections in the United States.[4] The HIV incidence rate (per 100,000 population) in 2018 was not determined due to the very low number of cases.[4]
Comparison of Racial/Ethnic Groups in the HIV Care Continuum

The HIV Care Continuum, which is also referred to as the HIV care cascade, represents the framework for providing medical care to persons living with HIV and involves five major steps: (1) diagnosis of HIV, (2) linkage to care, (3) engagement and retention in care, (4) prescription of antiretroviral therapy, and (5) achievement of virologic suppression.[7,8] Significant disparities exist along the continuum of HIV care for racial and ethnic minorities as discussed below.[9,10,11]

HIV Testing and Diagnosis

Screening for HIV infection and diagnostic testing is a crucial step in the HIV Care Continuum. In the United States in 2018, the proportion of persons living with undiagnosed HIV decreased to less than 21% in all racial/ethnic groups, with a range of 11.3% in White persons to 20.5% in Native Hawaiian/Pacific Islander persons (Figure 12).[4] Although the proportion of persons with diagnosed HIV has increased in recent years across racial and ethnic groups, the fraction of those who have been diagnosed in all groups falls short of the national benchmark goal to have at least 90% of persons living with HIV become aware of their HIV serostatus.[2] In 2017, fewer than 26% of persons in all racial/ethnic groups had stage 3 AIDS at the time of HIV diagnosis (Figure 13).[12] Potential barriers to HIV testing in racial/ethnic minorities include lack of convenient and culturally/linguistically sensitive testing locations, stigma, poverty, and low perception of HIV risk.[13,14,15,16] For undocumented immigrants, lack of health insurance and fear of deportation present additional barriers to testing.[17] Use of social media, street-based peer outreach, and community health worker programs have all shown promise in reducing HIV stigma and promoting higher HIV testing rates.[14]

Linkage to Care

National priorities have established the benchmark for successful linkage to care as the completion of a visit with an HIV medical provider within 1 month of HIV diagnosis.[2] Surveillance reports from the CDC provide data for two timeframes for linkage to care: within 1 month (30 days) and within 3 months (90 days) of HIV diagnosis.[12] Data from the HIV National Surveillance System for individuals newly diagnosed with HIV in 2017 show that linkage to HIV medical care within 1 month of HIV diagnosis occurred in more than 75% of persons in all racial/ethnic groups; the lowest rate was in Blacks/African Americans (75.8%) (Figure 14).[12] When using the less stringent 3-month parameter for linkage to HIV medical care, all racial/ethnic groups had linkage rates greater than 84% (Figure 15).[12] Linkage to care rates have improved in all racial/ethnic groups, but still fall short of the federal benchmark goal of at least 85% of persons linked to HIV medical care within 30 days of HIV diagnosis.[2]

Engagement and Retention in HIV Medical Care

The CDC surveillance data reports rates of receipt of any medical care (indicated by at least one CD4 cell count or HIV RNA measurement during the year) and retention in care (at least 2 CD4 or HIV RNA tests obtained at least 3 months apart during the year); these two definitions are distinct—retention in care reflects ongoing engagement in medical care whereas receipt of any medical care does not necessarily translate to ongoing care.[12] In 2016, among different racial/ethnic groups, rates for receipt of any HIV medical care ranged from 71.4% to 85.9% (Figure 16) and rates for retention in HIV care ranged from 51.0% to 67.5% (Figure 17).[12] In 2016, the CDC reported multi-year data for retention in care from 11 states and the District of Columbia that included persons diagnosed with HIV in 2010 and still alive in 2013.[18] In this study, persons retained in care for all 3 years (2011, 2012, 2013) were considered to be consistently retained in care. A lower proportion of Black/African American persons were consistently retained in care during 2011 through 2013 (38%) compared to Hispanic/Latino individuals (50%) or White persons (49%); these discrepancies persisted when stratified by sex and transmission category.[18]

Suppression of HIV RNA Levels
The achievement of plasma HIV RNA suppression is the final step in the HIV Care Continuum, and it represents a critical outcome measure. In the 2016 CDC HIV surveillance report, the rates of viral suppression are based on all persons living with HIV (at the surveillance year-end). Among persons who had at least 1 HIV RNA level checked in 2016, the percentage with an HIV RNA less than 200 copies/mL ranged from a low of 81.6.8% in Black/African American persons to a high of 93.9% in Asian persons; these rates are significantly higher than rates for all persons alive at year-end 2016 (Figure 18).[12] Earlier data from 5 AIDS Clinical Trials Group studies that included 2,495 individuals (1,151 Black/African American persons and 1,344 White persons) showed a 40% higher virologic failure in Black/African American persons than in White persons and this trend was seen with multiple different antiretroviral regimens.[19] The federal benchmark goal in the HIV Care Continuum is to have virologic suppression in at least 80% of persons diagnosed with HIV.[2] The rates of virologic suppression among all persons diagnosed with HIV is well below the federal benchmark virologic suppression goal in all racial/ethnic groups.[2]
Health Outcomes and Death

In 2018 CDC surveillance data, the number of HIV-related deaths was highest in Black/African American individuals (Figure 19).[4] In addition, the population HIV death rate (deaths related to HIV per 100,000 population) was highest among Black/African American persons, with rates 6.5 times higher than in White persons and 3.6-fold higher than Hispanic/Latino persons (Figure 20).[4] The differences in HIV-related death rates between different ethnic/racial groups are not entirely explained by the lower proportion of persons achieving HIV RNA suppression.[20] Retrospective analyses of hospital and insurance records have also found that Black/African American individuals living with HIV are approximately six times more likely than White persons with HIV to require hospitalization.[21] Mortality differences exist across other ethnic groups as well. A study comparing mortality from 1999 to 2009 between White and American Indian/Alaska Native persons found that American Indian/Alaska Native persons had significantly higher HIV-related death rates.[22]
Factors Associated with Health Inequities

Several paradigms for understanding the unique vulnerability to HIV in racial and ethnic minority populations have been proposed. This section will explore multiple potential factors that help to explain how significant racial/ethnic inequities have occurred in the HIV epidemic in the United States.

 Syndemic Theory

Syndemic refers to two or more factors that interact in a synergistic manner and result in an excess burden of disease that exceeds the contribution of either factor alone.[23] In syndemic theory, social determinants of health are integral to any explanation of high HIV rates in minority communities. Syndemic theory posits that the overlap of HIV, substance abuse, trauma, poverty, and incarceration are responsible for the disproportionate burden of HIV in minority populations, particularly in persons who are Black/African American or Hispanic/Latino.[23] For example, Black/African American and Hispanic/Latino persons living in poverty are more likely to experiment with injection drug use in adolescence or resort to sex work, both of which increase vulnerability to HIV acquisition. Similarly, high rates of drug use and violence lead to higher incarceration rates, which destabilize families and disrupt stable sexual partnerships, further increasing vulnerability to HIV. High sentencing rates for specific drug-related crimes reinforce the syndemic, given the disproportionately large numbers of young Black/African American males who have been incarcerated for drug offenses.[24] The relationships are reciprocal and synergistic, such that incarceration can lead to unemployment and poverty, and poverty can lead to increased drug use and sexual risk taking, and these risk behaviors can lead to HIV and poor health.

 Risk Environmental Model

The “Risk Environmental Model” proposes that racial and ethnic disparities in HIV infection arise because minority groups more often live in an environment that creates vulnerability to adverse HIV-related outcomes.[25] The “environment” in this model refers to social, economic, political, and physical influences that interact to increase an individual's vulnerability to HIV. In 2009, the National HIV Behavioral Surveillance Study Group conducted a study of more than 9,170 persons who inject drugs in 19 metropolitan statistical areas in the United States and found that Black/African American persons who inject drugs were more likely than White persons who inject drugs to live in areas with higher poverty, higher violent crime rates, and have lower access to substance abuse treatment and sterile syringe services. In addition, Black/African American and Hispanics/Latino persons were more likely to live in areas with high rates of drug-related arrests as compared to White persons.[25] This study illustrates that racial/ethnic residential segregation may limit access to HIV prevention and treatment services, thus perpetuating HIV transmission.

 Minority Stress Theory

The minority stress theory proposes that health disparities among populations can be explained by stressors caused by stigma. Extensive social science research has correlated the experience of stigma with adverse health outcomes in relation to cardiovascular disease, mental health, substance use disorders, and HIV infection.[26,27,28,29] Several studies suggest that minority stress and stigma can contribute to increased rates of depression, substance use disorders, and sexual behaviors that increase the risk of HIV acquisition (e.g. condomless sex and sex with multiple partners) among both heterosexuals and MSM.[26,30] Ethnic and racial minorities who also experience sexual-orientation-based stigma—for example, Black/African American MSM—may face a double burden due to “dual minority status”. [31,32] Ethnographic research has identified that stigma based on sexual orientation increases HIV acquisition risk behavior similar to the increased risk seen with racial/ethnic-associated stigma.[31]

 Sexual Networks and Concurrency

Risk for HIV acquisition is mediated not only by traditional sexual risk factors, such as condomless
intercourse, sex with multiple partners, or sex under the influence of alcohol or drugs, but also by sexual networks and patterns of relationships that are integrated into community structures. Concurrent sexual partnerships, defined as sexual relationships that overlap in time, have been identified as a driving factor in the HIV epidemic. Concurrent partnerships may lead to faster spread of HIV than sequential (serial monogamous) partnerships, especially in concurrent situations where both partners are non-monogamous. Concurrency may be an especially important factor in HIV transmission for Black/African American women. One study of more than 7,000 women in the 2002 Survey of Family Growth found that Black/African American women were twice as likely as White or Hispanic/Latino women to have concurrent partners. Several factors contribute to this, including low male-to-female gender ratios (owing in part to high rates of incarceration of Black/African American males) and substance use. Because the prevalence of HIV among Black/African American persons is higher than it is among White persons, concurrency among high- and low-risk groups leads to significantly greater risk of HIV acquisition for Black/African American persons, since the per-act probability of acquiring HIV is higher.

Incarceration

In order to understand the theory that incarceration increases the vulnerability of minority populations to HIV, it is important to recognize the overlapping epidemics of incarceration and HIV, particularly for low-income people of color. In 2012, Black/African American and Hispanic/Latino persons together comprised approximately 30% of the United States population but 58% of the United States prison population. Different rates in drug-related arrests, as well as drug sentencing, are major contributors to the differences in incarceration rates based on race. Similar findings exist among persons with HIV who are incarcerated. In one study that included 1,233 men and women with HIV who entered jail at 10 sites, 65% of subjects self-identified as Black and 25% as Hispanic. Incarceration directly and indirectly contributes to racial and ethnic differences related to HIV acquisition risk. High rates of incarceration among Black men, for example, lead to a scarcity of male sexual partners in Black communities; the resulting imbalanced sex ratio has been shown to increase the likelihood that the remaining black men will have multiple female sex partners (and multiple concurrent partnerships). Incarceration also disrupts primary intimate partnerships and men with incarceration histories have higher rates of multiple sex partners, concurrent partners, unprotected sex, and illicit drug use. Young people in communities with high rates of violence and incarceration also suffer from a lack of role models and are more likely to engage in criminal behaviors. Adolescents with a history of incarceration have increased rates of activities associated with HIV acquisition, including substance use during sex, condomless sex, and multiple partners.

Historical Trauma Theory and Social Victimization

Racial and ethnic segregation, disproportionate incarceration rates in minority communities, and a history of unethical treatment of persons of color have all created mistrust of societal institutions, including the health care system. Examples involving several groups are highlighted below. Efforts to address HIV prevention and treatment in communities that experience historical trauma may fall short unless the factors underlying mistrust and loss are adequately addressed.

- **Black/African American Persons:** The Tuskegee experiment is perhaps the most infamous among unethical medical research in the United States. In this study, curative treatment for syphilis was deliberately withheld from 399 Black/African American men so that that natural history of the disease could be studied. At the start of the HIV epidemic in the United States, some Black/African American persons refused treatment due to fears of medical experimentation and some expressed fears that HIV was a form of genocide. Some Black/African American persons continue to subscribe to HIV conspiracy theories. Ongoing experiences of stigma and health care system inequities may contribute to underutilization of health care services and complicate public health efforts to engage Black/African American individuals in HIV prevention and care.
• **Hispanic/Latino Persons**: Social marginalization may contribute to the reluctance of Hispanic/Latino populations to seek HIV-related services.[50] One study of 190 sexual and gender minority Hispanic/Latino persons in North Carolina found that avoidance of HIV testing was often due to fear of disclosure and repercussions of a positive test, such as fear the test result would be reported to the government.[51] In addition, reluctance to participate in HIV care may arise among undocumented immigrants who face concerns for deportation.[50]

• **American Indian/Alaska Native Persons**: Historical trauma theory can help to explain HIV vulnerabilities among other minority populations. For example, mistrust of the medical establishment as well as HIV denialism is common among Native populations within the United States.[52,53] One study of Native American persons living on the Fort Peck Reservation in Montana found that a particular type of intergenerational trauma designated as “Historical Loss” (from loss of language, land, and traditional spiritual and cultural identity) is linked to psychological symptoms and an increased likelihood of sex with multiple concurrent partners.[54]
Future Directions for Reducing HIV-Related Disparities

Reducing HIV-related disparities in racial/ethnic minorities will require a coordinated, multidisciplinary approach that addresses the social and structural drivers of HIV (poverty, unemployment, geographic segregation, incarceration, and differential access to health care) and that can be tailored to meet specific local and cultural needs.[36]

Use of Community Partnerships

Philadelphia’s citywide faith-based HIV prevention campaign, initiated in 2010, provides one example of how a community partnership was successfully created to help achieve national benchmark HIV care continuum goals.[55] The campaign attracted a coalition of faith-based organizations, academic institutions, private and public sector players, and the media in order to promote HIV testing, awareness, and prevention; faith-based organizations played a particularly important role with Black/African American individuals.[55] This campaign demonstrated that community-based advocacy is effective in increasing dialogue around HIV that can translate into public health action.[56]

Increasing Numbers of Racial/Ethnic Minorities in HIV Workforce

Patient-provider racial concordance has been shown to improve the rates of testing for sexually transmitted infections among Black/African American women attending sexually transmitted diseases clinics, and both racial and language concordance has been associated with improved rates of medication adherence.[57,58] Early studies also suggested that racial concordance between persons with HIV and their medical providers reduced the time to receipt of antiretroviral therapy.[59] Ongoing efforts for HIV workforce development can play an important role in reducing disparities in HIV medical care. In particular, training more minority clinicians who can provide HIV medical services may help improve engagement in care of minority patients with HIV. Regardless of racial/ethnic concordance or discordance, the level of trust between patient and provider remains paramount, thus reinforcing the need to have a culturally sensitive competent HIV workforce.[60]

Early Engagement in Care

Available evidence suggests that focusing on early engagement in HIV care may yield the greatest returns in terms of improving racial and ethnic disparities in the HIV cascade. Retention in the first year after HIV diagnosis predicts future patterns of engagement—most individuals who engage in care during the first year remain in care. At the retention step of the HIV Care Continuum, major disparities among racial and ethnic groups emerge.[18] More resources should be directed at ensuring that persons who are diagnosed with HIV are immediately linked to HIV care upon HIV diagnosis and that they receive convenient and culturally sensitive medical care. These efforts should also include strategies and infrastructure to maximize their retention in HIV care.

Addressing Needs of Undocumented Immigrants

It is crucial to address the challenges of meeting the health care needs for undocumented immigrants with HIV in the United States. The Affordable Care Act reduced disparities in insurance coverage rates by race and ethnicity but did not extend insurance coverage to undocumented immigrants. Typically, undocumented immigrants qualify only for emergency services and pregnancy-related services, which makes it very difficult to access medical care for HIV testing, prevention, and treatment.[61] For undocumented individuals, the barrier created by lack of insurance is compounded by others, including lack of knowledge about the healthcare system, fear of deportation, oppressive work environments, and social isolation.[62] Given the public health implications of excluding an entire subpopulation from access to HIV services, including antiretroviral therapy, it is imperative that the treatment cascade be improved for undocumented immigrants, as for other ethnic and racial minorities.
Summary Points

- In the United States, a disproportionate burden of HIV is carried by Black/African American and Hispanic/Latino populations.
- Blacks/African-American persons have, by far, the highest number and rate of persons with HIV in the United States. Hispanic/Latino persons have the second highest HIV prevalence rate.
- One of the three main HIV-related federal benchmark goals is to reduce HIV-related health disparities and inequities.
- Along the HIV Care Continuum, Black/African American persons have relatively low rates of linkage to HIV medical care, retention in care, and virologic suppression.
- Several paradigms for understanding the unique vulnerability to HIV in racial and ethnic minority populations have been proposed, including syndemic theory, the risk environmental model, minority stress theory, historical trauma theory, and other paradigms that emphasize the impact of sexual networks and incarceration on HIV risk.
- Reducing disparities in HIV infection and improving outcomes in racial and ethnic minorities will require a coordinated, multidisciplinary approach.
- HIV workforce development should focus on recruitment of more minority healthcare providers as well as on improving cultural competency.
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  [PubMed Abstract] -

  [PubMed Abstract] -
Figures

Figure 1 Estimated HIV Prevalence in United States, by Race/Ethnicity, 2018

These estimates are for persons aged 13 years and older living with diagnosed and undiagnosed HIV infection in the United States at year-end 2018. The total includes persons with HIV infection whose risk factor was not reported or identified.


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<td>Number</td>
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<td>Asian</td>
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Figure 2 Estimated HIV Prevalence Rate in United States, by Race/Ethnicity, 2018

These estimates are for persons aged 13 years and older living with diagnosed and undiagnosed HIV infection in the United States at year end 2018.


*Estimate for persons ≥13 years of age living with diagnosed or undiagnosed HIV infection
Figure 3 Estimated HIV Incidence in United States, by Race/Ethnicity, 2018

These estimates are for persons aged 13 years and older living with diagnosed and undiagnosed HIV infection in the United States at year-end 2018.


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<th>New HIV Infections</th>
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<td>Black/African American</td>
<td>15,300</td>
<td>42.0</td>
</tr>
<tr>
<td>Hispanic/Latino</td>
<td>10,300</td>
<td>28.3</td>
</tr>
<tr>
<td>Native Hawaiian/Other Pacific Islander</td>
<td>≈60</td>
<td>0.2</td>
</tr>
<tr>
<td>White</td>
<td>9,000</td>
<td>24.7</td>
</tr>
<tr>
<td>Persons of Multiple Races</td>
<td>910</td>
<td>2.5</td>
</tr>
<tr>
<td>Total / Average Rate</td>
<td>36,400</td>
<td></td>
</tr>
</tbody>
</table>
Figure 4 Estimated HIV Incidence Rate in United States, by Race/Ethnicity, 2018

These estimates are for persons aged 13 years and older living with diagnosed and undiagnosed HIV infection in the United States at year-end 2015.

Figure 5 Lifetime Risk of HIV Diagnosis in Males and Females, by Race/Ethnicity

The numbers shown in this table represent the probability as "one in n" persons who will be diagnosed with HIV during their lifetime.

Figure 6 Lifetime Risk of HIV Diagnosis in Men who have Sex with Men, by Race/Ethnicity

The numbers shown in this table represent the probability as "one in n" persons who will be diagnosed with HIV during their lifetime.

Figure 7 Estimated HIV Incidence for Black/African American Persons in the United States, 2014-2018

Figure 8 Estimated HIV Incidence for White Persons in the United States, 2014-2018


Estimated HIV Incidence for White Persons in United States, 2014-2018

- Estimated New HIV Infections in White Persons: 9,800, 9,800, 9,700, 9,400, 9,000
Figure 9 Estimated HIV Incidence for Hispanic/Latino Persons in the United States, 2014-2018

Figure 10 Estimated HIV Incidence for Asian Persons in the United States, 2014-2018

Figure 11 Estimated HIV Incidence for American Indian/Alaska Native Persons in the United States, 2014-2018

Figure 12 Persons with Undiagnosed HIV in United States, by Race/Ethnicity, 2018

Figure 13 Stage 3 (AIDS) at Time of HIV Diagnosis in United States, by Race/Ethnicity, 2017

These data are from 41 States and the District of Columbia.

Figure 14 Linkage to HIV Medical Care within 1 Month after HIV Diagnosis (≥1 CD4 or Viral Load Test), by Race/Ethnicity, United States 2017

Linkage to care within 1 month after HIV diagnosis was defined by at least 1 CD4 cell count or HIV RNA level within 1 month of diagnosis. These data are from 41 States and the District of Columbia.

Figure 15 Linkage to HIV Medical Care within 3 Months after HIV Diagnosis (≥1 CD4 or Viral Load Test), by Race/Ethnicity, United States 2017

Linkage to care within 3 months after HIV diagnosis was defined by at least 1 CD4 cell count or HIV RNA level within 3 months of diagnosis. These data are from 41 States and the District of Columbia.

Figure 16 Receipt of Any HIV Medical Care (≥1 CD4 or HIV RNA Test), by Race/Ethnicity, United States 2016

These data are from 41 States and the District of Columbia.

Figure 17 Retention in HIV Medical Care (≥2 CD4 or HIV RNA Test at least 3 months apart during 2015), by Race/Ethnicity, United States 2016

These data are from 39 States and the District of Columbia.

Figure 18 HIV RNA Less than 200 Copies/mL in 2016, by Race/Ethnicity, United States

Data represents the percentage of all persons alive with HIV at year-end 2016 who had at least 1 viral load test obtained during 2016 and whose viral load was less than 200 copies/mL. Viral suppression was defined as HIV RNA less than 200 copies/mL at the most recent HIV RNA level tested in 2015. These data are from 41 states and the District of Columbia.

Figure 19 Deaths of Persons with Diagnosed HIV in United States, by Race/Ethnicity, 2018

Figure 20 Death Rates of Persons with Diagnosed HIV in United States, by Race/Ethnicity, 2018